

Name : _____

Adding Polynomials

Single-variable: S3

Add the polynomials.

1) $9q^2 - 14q + 2q^4 - 9 - 12q^3$, $12q^3 + 14q + 2q^4 + 6q^5$, $-9q^2 - 4q^4 - 6q^5$

2) $7t + t^4 + 9t^2 + 4 + 2t^3$, $18t^2 + 4t^5 + 2t + t^3$, $20t^4 + 5t^2 + 14 + 2t^5 + 3t^3$

3) $-1 - 2u^5 + 6u^6$, $5u^5 - 3u^6 + 2u^3 + 4 + u^4$

4) $-d^3 + 4d^2 - 8c$, $3d^3 + 16 + 14d^5$

5) $15w^5 - 21w - 11w^3$

6) $-4r^4 - 6r - 24r^2 - 10 + r^3$, $12r - 9r^4 - 14r^2$, $-12r^4 - r^3 - 3r + 5r^2$

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Name : _____

Answer key

Adding Polynomials

Single-variable: S3

Add the polynomials.

1) $9q^2 - 14q + 2q^4 - 9 - 12q^3$, $12q^3 + 14q + 2q^4 + 6q^5$, $-9q^2 - 4q^4 - 6q^5$

-9

2) $7t + t^4 + 9t^2 + 4 + 2t^3$, $18t^2 + 4t^5 + 2t + t^3$, $20t^4 + 5t^2 + 14 + 2t^5 + 3t^3$

$6t^5 + 21t^4 + 6$

3) $-1 - 2u^5 + 6u^6$, $6u^6 - 4u^5 + 3u^3 + 4 + u^4$, $u^5 - 3u^6 + 2u^3 + 4 + u^4$

$6u^6 - 4u^5 + 3u^3 + 4 + u^4$

4) $-d^3 + 4d^2 - 8c$, $13d^2 - 7d$, $+ 16 + 14d^5$

$13d^2 - 7d$

5) $15w^5 - 21w - 11w^3$, $-7w^3 - 4w^2 - 5w$

$-7w^3 - 4w^2 - 5w$

6) $-4r^4 - 6r - 24r^2 - 10 + r^3$, $12r - 9r^4 - 14r^2$, $-12r^4 - r^3 - 3r + 5r^2$

$-25r^4 - 33r^2 + 3r - 10$

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